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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/608,421	06/30/2003	Volkan Kursun	000687-00302	8087	
27557 75	590 09/03/2004		EXAMINER		
BLANK ROME LLP			TRAN, ANH Q		
	600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037			PAPER NUMBER	
,			2819	2819	
			DATE MAILED: 09/03/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Commence	10/608,421	KURSUN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Anh Q. Tran	2819			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>30 Ju</u>	ine 2003.				
	_				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) 19-25 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.				
Application Papers					
9) The specification is objected to by the Examine	r. ·				
D)⊠ The drawing(s) filed on <u>30 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/30/03. 	Paper No(s)/Mail Da				

DETAILED ACTION

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Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention: Group I, claims 1-18 directed to a domino logic gate; Group II, claims 19-25 directed to a reference generation circuit.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2. During a telephone conversation with Michael Greenbaum on 8/19/04 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-18. Affirmation of this election must be made by applicant in replying to this Office action. Claims 19-25 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Krishnamurthy et al (6,346,831).

Krishnamurthy shows:

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1. a domino logic circuit (Fig. 6, 7, 8) comprising: a pulldown circuit having a dynamic node (Q, Fig. 7; A, Fig. 6); a keeper (M16, M24) connected to the pulldown

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circuit at the dynamic node; and a source (174) of a body bias voltage, the source of the

body bias voltage being connected to the keeper to supply the body bias voltage (Vbbn)

to the keeper to bias the keeper.

2. The domino logic circuit of claim 1, wherein the body bias voltage is a reverse

body bias voltage (col. 4, lines 45-52).

3. The domino logic circuit of claim 2, wherein the reverse body bias voltage is

static (constant, col. 4, line 49).

4. The domino logic circuit of claim 3, further comprising a foot transistor (M20,

Fig. 6) for connecting the pulldown circuit to ground.

5. The domino logic circuit of claim 3, wherein the pulldown circuit is connected

to ground without an intervening foot transistor (112, Fig. 7).

6. The domino logic circuit of claim 2, wherein source supplies the reverse body

bias voltage such that the reverse body bias voltage alternates between two values

(changing voltages, col. 4, line 49).

7. The domino logic circuit of claim 6, further comprising a foot transistor (M20,

Fig. 6) for connecting the pulldown circuit to ground.

8. The domino logic circuit of claim 6, wherein the pulldown circuit is connected

to ground without an intervening foot transistor (112, Fig. 7).

9. The domino logic circuit of claim 1, wherein the body bias voltage is a forward

body bias voltage (col. 7, lines 20-36).

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10. The domino logic circuit of claim 9, wherein the forward body bias voltage is static (constant, col. 4, line 49).

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- 11. The domino logic circuit of claim 10, further comprising a foot transistor (M20, Fig. 6) for connecting the pulldown circuit to ground.
- 12. The domino logic circuit of claim 10, wherein the pulldown circuit is connected to ground without an intervening foot transistor (112, Fig. 7).
- 13. The domino logic circuit of claim 9, wherein source supplies the forward body bias voltage such that the forward body bias voltage alternates between two values (changing voltages, col. 4, line 49).
- 14. The domino logic circuit of claim 13, further comprising a foot transistor (20,Fig. 6) for connecting the pulldown circuit to ground.
- 15. The domino logic circuit of claim 13, wherein the pulldown circuit is connected to ground without an intervening foot transistor (112, Fig. 7).
- 16. The domino logic circuit of claim 1, wherein source supplies the body bias voltage such that the body bias voltage alternates between a first forward body bias voltage value and a second reverse body bias voltage value (changing voltages, col. 4, line 49).
- 17. The domino logic circuit of claim 16, further comprising a foot transistor (20, Fig. 6) for connecting the pulldown circuit to ground.
- 18. The domino logic circuit of claim 16, wherein the pulldown circuit is connected to ground without an intervening foot transistor (112, Fig. 7).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Krishnamurthy et al (6,204,696) discloses a domino logic gate with keeper circuit having body bias.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Q. Tran whose telephone number is 571-272-1813. The examiner can normally be reached on M-TH (7:00-5:30) Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anh Q. Tran Examiner Art Unit 2819

8/19/04